

## Kennedy NASA Procedural Requirements

Effective Date: May 18, 2022

Expiration Date: May 18, 2027

Responsible Office: Safety and Mission Assurance

---

## KSC Safety Procedural Requirements

---

To obtain the appropriate KSC Safety Procedural Requirements, please follow the link below that is applicable. If there is any question with regards to which volume should be used, reference the applicable contract or agreement.

1. KSC Safety Procedural Requirements, Volume 1, Safety Procedural Requirements for Civil Servants/NASA Contractors ([KNPR 8715.3-1](#));
2. KSC Safety Procedural Requirements, Volume 2, Safety Procedural Requirements for Partner Organizations Operating in Joint-Use Facilities ([KNPR 8715.3-2](#))
3. KSC Safety Procedural Requirements, Volume 3, Safety Procedural Requirements for Partner Organizations Operating in Exclusive-Use Facilities ([KNPR 8715.3-3](#)).
4. KSC Safety Procedural Requirements for the Consolidated Operations, Management, Engineering and Test (COMET) Contract ([KNPR 8715.3-1\\_COMET](#))

**KNPR 8715.3, KSC Safety Procedural Requirements**  
**Rev. L**

**Change Log**

Date	Revision	Description
10/26/2006	Basic	This document supersedes KHB 1710.2, KSC Safety Practices Handbook.
11/18/2004	Basic-1	Administrative changes
11/18/2004	Basic-2	Administrative changes
3/15/2005	Basic-2-A	Section 1.6, Safety Variance Processing has been revised.
4/8/2005	Basic-2-B	Administratively corrected the graphics on page 45 and revised to reflect new Agency titles on Table 1-1.
7/12/2005	A	This document supersedes KNPR 8715.3, Rev. Basic-2-B, KSC Safety Practices Procedural Requirements.
2/8/2006	B	This document supersedes KNPR 8715.3, Rev. A, KSC Safety Practices Procedural Requirements.
2/9/2006	B-1	Administrative change: Page 64: KHB 1620.1 and 1620.2 to KNPR 1620.1 and 1620.2 and KHB 1040.1 to JHB 2000; page 87 4.2 g. to JHB 2000
8/4/2006	B-2	This document contains 2 Interim Changes (inserted after preface): 1. Attachment F, KSC Supplement to NSS 1740.12, NASA Safety Standard for Explosives, Propellants and Pyrotechnics (paragraphs 1.0 a through 1.0 b (3)). 2. Attachment G, KSC Supplement to NASA Standard 8719.9, NASA Standard for Lifting Devices and Equipment, replaced in its entirety.
1/30/2007	C	Rev C incorporates: 1. The 2 interim changes from Rev. B-2: a. Attachment F, KSC Supplement to NSS 1740.12, NASA Safety Standard for Explosives, Propellants and Pyrotechnics, Paragraphs 1.0 a through 1.0 b (3) regarding Humidity Requirements. b. Attachment G, KSC Supplement to NASA Standard 8719.9, NASA Standard for Lifting Devices and Equipment, replaced in its entirety). 2. Document Change Requests affecting the following paragraphs: a. Glossary – Added update definitions for “Medical Treatment” and “First Aid” as per 29 CFR 1904.7(b)(5)i and ii respectively. b. Paragraph 1.7, Safety Jurisdiction – Added verbiage regarding empowerment of employees to stop work, if necessary and to prohibiting reprisal for reporting and/or acting on safety concerns. c. Paragraph 2.1, Adverse weather notification. d. Attachment F, Paragraph 2.0 c (4) (b), Storage of SRB segments in the VAB during operational delays. e. Attachment K, Launch and Landing, Paragraphs 3.0 c and 3.0 c (8), Turnaround Operations regarding Tail Service Mast (TSM) Entry.

**KNPR 8715.3, KSC Safety Procedural Requirements**  
**Rev. L**

3/2/2007	C-1	This document contains an Interim Change (inserted after preface): The change implemented by this interim policy letter replaces Appendix B to Attachment E.
10/5/2007	D	Revision D changes this document as follows: 1. Incorporates interim change from Rev. C-1, a rewrite of APPENDIX B TO ATTACHMENT E, SAFETY REQUIREMENTS FOR DESIGN, TEST, AND GROUND PROCESSING OF FLIGHT Graphite/Epoxy (GR/EP) Composite Over wrapped Pressure Vessels (COPVs) AT THE KENNEDY SPACE CENTER (KSC), CAPE CANAVERAL AIR FORCE STATION (CCAFS), AND THE VANDENBERG AIR FORCE BASE (VAFB) in its entirety. 2. Incorporates Document Change Request (DCR) for the following: a. Adds/modifies sections LIST OF MANDATORY DOCUMENTS, REFERENCE DOCUMENTS, ACRONYMS AND ABBREVIATIONS, and GLOSSARY. b. Rewrites ATTACHMENT E, KSC SUPPLEMENT TO NASA-STD-8719.17, NASA REQUIREMENTS FOR GROUND-BASED PRESSURE VESSELS AND PRESSURIZED SYSTEMS (PV/S). c. Rewrites APPENDIX A TO ATTACHMENT E, ITEMS EXCLUDED FROM CERTIFICATION in its entirety. d. Adds 5.8.1, CRYOGENIC SKIN EXPOSURE FIRST AID. e. Adds 5.15, KSC EMERGENCY SHOWER/EYEWASH REQUIREMENTS f. Updates Appendix A to Attachment F, LIST OF KSC APPROVED EXPLOSIVES TEST EQUIPMENT
12/18/2007	E	Revision E rewrites Chapter 9, Technical Operating Procedures and makes some reformatting changes.
6/4/2008	F	Revision F changes this document as follows: 1. Rewrites Technical Operating Procedures Out-of-Order Processing section (combines paragraphs 9.9.2, 9.9.3 and 9.9.4) 2. Deletes unreferenced documents and adds several new references.
11/12/2008	G	Revision G changes this document as follows: 1. Adds documents to P4, Applicable Documents 2. Updates section 1.6 3. Rewrites Chapter 4 to update referenced documents and update manloading requirements 4. Updates form number in 5.5 and adds 5.5.3, Roofing Operations 5. Updates Chapter 8 to delete 8.1.1 and add 8.9, KSC Fall Protection Policy 6. Revises 12.1.4.e to clarify requirement
7/13/2009	H	The primary goals of Revision H were to eliminate Shuttle-specific requirements in preparation for future programs, capture existing Shuttle-specific requirements for use through the end of the program, capture International Space Station-specific requirements not affected by Rev H revisions, incorporate pending Document Change Requests where concurrence has

		<p>been reached, and revise the formatting/numbering of some sections in need of clarification.</p> <p>Hyperlinks were corrected/inserted throughout and some sections were renumbered or reformatted to meet current KNPR guidelines. Where content was not changed, this process was not noted in this Revision History.</p> <p>Chapter 18 was created to capture all existing Shuttle-specific Requirements. Where requirements within the body of the KNPR were “generalized,” a reference and hyperlink to Chapter 18 was provided which states:</p> <p>Shuttle-Specific Requirements for this section are contained in Chapter 18.</p> <p>The original Shuttle Requirements, as presented in Revision G of KNPR 8715.3, are contained within Chapter 18. All sections of the KNPR are represented in Chapter 18. Where the basic requirements presented in the rest of the KNPR apply to Shuttle, the term SABD (same as basic document) appears. Where Shuttle-specific requirements were generalized, the original requirements are presented and supersede the generalized requirements in the other chapters of the KNPR. Some sections of the KNPR are noted as “Reserved” to preserve identical numbering between Chapter 18 and the rest of the KNPR. The goal was to maintain the applicability of this KNPR to the Shuttle program without developing a second document while simultaneously making the KNPR available to non-Shuttle programs such as the Constellation Program.</p> <p>Chapter 19 captures International Space Station-specific requirements that were generalized in the rest of the KNPR (only occurred in section 13.8.3, Flight Vehicle Vessels and Systems). Where this occurs, a reference and hyperlink to Chapter 19 was provided which states:</p> <p>International Space Station Requirements for this section are contained in Chapter 19 .</p> <p>Upon completion of the Shuttle Program, Chapter 18 and all references to Chapter 18 will be deleted, leaving a non-program-specific KNPR.</p> <p>To identify the changes made during this revision, a change matrix detailing Revision H changes has been provided.</p> <p>The change matrix details requirements as they existed in Rev G and presents the new requirements presented in Rev H. In some</p>
--	--	---

**KNPR 8715.3, KSC Safety Procedural Requirements**  
**Rev. L**

		cases, where necessary, a description of the changes that were made is included.
1/20/2010	H-1	<p>An Interim Policy letter was signed by the Center Director on April 9, 2009 and sent to all KSC Senior Management. The requirements will be included in the next revision of this document, but have been applicable to all applicable personnel since April 9, 2009:</p> <p>1. Nonroutine Hazardous Operations/Tests Requirements: Defines requirements for identifying Nonroutine Hazardous Operations/Test, assigns responsibility for these activities, defines hazard analysis requirements, establishes requirements for review boards, details the approval process for these activities, and establishes operational requirements.</p>
2/24/2010	H-2	<p>An Interim Policy letter was signed by the Safety and Mission Assurance Director on January 21, 2010. The requirements will be included in the next revision of this document, but have been applicable to all applicable personnel since January 21, 2010:</p> <p>Lockout Tagout Program at the John F. Kennedy Space Center (KSC): The letter establishes the new Center policy for Lockout Tagout and supersedes Section 8.5 of KNPR 8715.3 Revision H-1.</p>
6/1/2010	I	<p>To identify the changes made during this revision, a change matrix detailing Revision I changes can be found at the following location:</p> <p><a href="https://tdksc.ksc.nasa.gov/servlet/dm.web.Fetch/KNPR_8715.3_Rev_I_Change_Matrix.pdf?gid=89517">https://tdksc.ksc.nasa.gov/servlet/dm.web.Fetch/KNPR_8715.3_Rev_I_Change_Matrix.pdf?gid=89517</a></p> <p>The change matrix details requirements as they existed in Revision H-2 and presents the new requirements presented in Rev I. In some cases, where necessary, a description of the changes that were made is included.</p> <p>In Revision H-2, Shuttle-specific requirements were moved to Chapter 18 in preparation for future programs and to capture existing Shuttle-specific requirements for use through the end of the program, and International Space Station-specific requirements were moved to Chapter 19 to generalize this KNPR. Upon completion of the Shuttle Program, Chapter 18 and all references to Chapter 18 will be deleted, leaving a non-program-specific KNPR. This system has been continued in Revision I.</p>
6/23/2010	I-1	6/23/2010 - Administratively changed to clarify the new requirements in section 9.2.6 a. & b.
3/29/2011	I-1	Administratively changed to update links in Chapter 15. Section 15.3.3.3, 15.3.3.4a., and 15.4.2.
10/14/2011	I-2	An Interim Change Policy was signed by the Safety and Mission Assurance Director on October 13, 2011. The requirement

**KNPR 8715.3, KSC Safety Procedural Requirements**  
**Rev. L**

		letter defines the interim Center policy to request relief from safety requirements that are "No Longer Applicable" due to the elimination of hazards resulting from changes in operational processes.
12/15/2011	I-3	Administratively changed to update document reference, NSS 1740.12, NASA Safety Standard for Explosives, Propellants, and Pyrotechnics has been cancelled and replaced with NASA-STD 8719.12, Safety Standard for Explosives, Propellants, and Pyrotechnics
6/28/2012	J	KNPR 8715.3 went through a major reorganization. It has been divided into three volumes in accordance with applicability: <ol style="list-style-type: none"> <li>1. Volume 1, Safety Procedural Requirements for Civil Servants/NASA Contractors (<a href="#">KNPR 8715.3-1</a>);</li> <li>2. Volume 2, Safety Procedural Requirements for Partner Organizations Operating in Joint-Use Facilities (<a href="#">KNPR 8715.3-2</a>, to be completed at a later date)</li> <li>3. Volume 3, Safety Procedural Requirements for Partner Organizations Operating in Exclusive-Use Facilities (<a href="#">KNPR 8715.3-3</a>, to be completed at a later date).</li> </ol>
4/29/2013	J-1	Administratively changed due to the release of Volumes 2 and 3.
6/15/2017	K	Revalidated with minor administrative changes.
5/18/2022	L	Revalidated by adding a link to 4. KSC Safety Procedural Requirements for the Consolidated Operations, Management, Engineering and Test (COMET) Contract (KNPR 8715.3-1_COMET) and incorporating a Change Log.